

New Record of *Arachnura melanura* SIMON,
1867 (Araneae: Araneidae), from Japan,
with the First Description of the Male

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谷川明男¹⁾: キオヒキグモの日本での新記録および雄の記載

Abstract: *Arachnura melanura* SIMON, 1867, is newly recorded from Japan. Its male is described for the first time. The previous record of the species from this country has been regarded as a misidentification.

Three species of the genus *Arachnura*, *A. nipponica* KISHIDA, *A. melanura* SIMON, 1867, and *A. logio* YAGINUMA, 1956, were recorded from Japan (YAGINUMA, 1957, 1968, 1970, 1977). Of these, *A. nipponica* KISHIDA was a nomen nudum (BRIGNOLI, 1983); and the specimen of *A. melanura*, "from IgA by Tsuiga", was reidentified as *A. logio* (YAGINUMA, 1986; YAGINUMA *et al.*, 1990). Therefore, only one species, *A. logio*, remained in the Japanese fauna.

Among spiders newly collected from Iriomotejima Island, Okinawa Pref., Japan, I found some specimens identified with *A. melanura*, including several males. In my field work at the island from 1983 to 1990, the total number of working days being 145, only one species of *Arachnura* was obtained. Therefore, it was concluded that these females and males belong to the same species. In the present paper, I describe male of *Arachnura melanura* for the first time as well as female new to the Japanese fauna.

The abbreviations used in this paper are as follows: AME, anterior median eye; ALE, anterior lateral eye; PME, posterior median eye; PLE, posterior lateral eye; MOA, median ocular area.

Before going further, I wish to express my hearty thanks to Dr. Hirotsugu ONO, National Science Museum (Nat. Hist.), Tokyo, for his constant guidance and for correcting the manuscript of this paper, and to Dr. Takeo YAGINUMA, Osaka, for valuable informations and offering some copies of literature. My thanks are also due to Mr. Seiji MATSUMOTO, Kyorin University, Tokyo, and Norihisa TANAKA, Yokohama National University, Kanagawa, for their offering some important copies of literature.

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Arachnura melanura SIMON, 1867

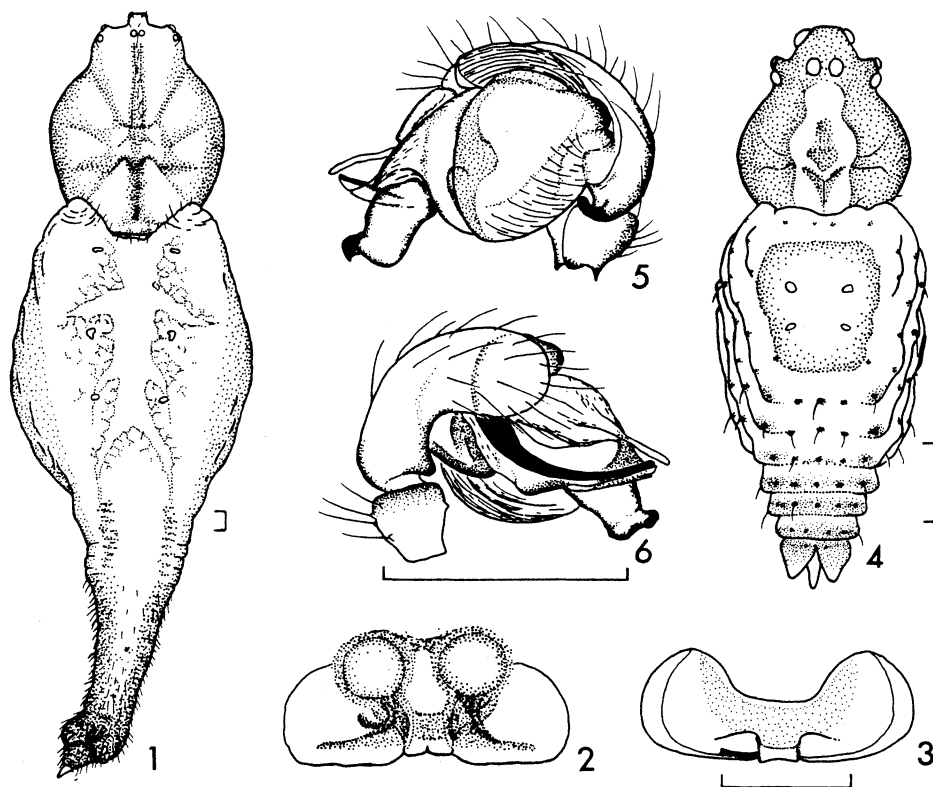
[Japanese name: Ki-ohikigumo]

(Figs. 1–6)

Arachnura melanura SIMON, 1867, *Rev. Mag. Zool.*, 2(19):17 [Type locality is in Malaysia. (SIMON, 1895)].
 — SIMON, 1895, *Hist. Nat. Araign.*, 1(4):776, fig. 847. — ROEWER, 1942, *Kat. Aran.*, 1:751.
 — BONNET, 1955, *Bibl. Aran.*, 2(1):372 — CHRYSANTHUS, 1961, *Nova Guinea, Zoology*, (10):203, figs. 39–41, 68.

Specimens examined. Iriomotejima Island, Yaeyama Islands, Okinawa Pref., Japan. A. TANIKAWA leg.: 3 ♀♀, 28-III-1985; 1 ♀, 29-III-1985; 1 ♂, 30-III-1986; 1 ♂, 28-XII-1986; 1 ♀, 7-VIII-1987; 1 ♂, 29-XII-1988; 1 ♂, 28-III-1989; 1 ♂, 28-XII-1989; 2 ♂♂, 30-XII-1989.

Description [based on the Japanese specimens; all the features of these female specimens exactly conform to the descriptions made by SIMON (1867, 1895), CHRYSANTHUS (1961) and UYEMURA (1976a,c), though no specimens from the other region were available]. Measurement.



Figs. 1–6 *Arachnura melanura* SIMON, 1867. — 1. Cephalothorax and abdomen of female, dorsal view. 2. Female genitalia, dorsal view. 3. Epigynum. 4. Cephalothorax and abdomen of male, dorsal view. 5. Left male palp, ventral view. 6. Same, dorsal view. (Scale: 0.25mm).

Body length ♀ 11.13–12.25mm, ♂ 1.43–1.82mm; carapace length ♀ 3.20–3.48mm, ♂ 0.59–0.63mm; carapace width ♀ 2.52–2.72mm, ♂ 0.51–0.54mm; abdomen length ♀ 8.20–9.30mm, ♂ 0.93–1.21mm; abdomen width ♀ 3.00–3.40mm, ♂ 0.55–0.68mm. Length of legs of 1 ♀ 1 ♂ as shown in Table 1.

Female. Carapace longer than wide (length/width 1.27–1.33). Both rows of eyes recurved, AMEs lying on tubercle projected forward. MOA longer than wide (length/width 1.38–1.52), wider in front than behind (anterior width/posterior width 1.06–1.31). Clypeus nearly as wide as the diameter of AME (clypeus/AME 0.90–1.22). Chelicera with 4 promarginal and 3 retromarginal teeth. Labium wider than long (length/width 0.70–0.83). Sternum slightly longer than wide (length/width 1.02–1.14). Abdomen longer than wide (length/width 2.55–2.87), anteriorly with a pair of prominent humps and caudally elongated (Fig. 1). Posterior part of the abdomen with three knobs, one at the end, two on the dorsal side; these knobs provided with white tips; some specimens (3 ♀♀ of 5 ♀♀ examined) with two more tips without knobs on the ventral side. Female genitalia as shown in Figs. 2–3.

Male. Carapace slightly longer than wide (length/width 1.13–1.26), convex, anteriorly projected forward. AME the largest (ALE/AME 0.60–0.70, PME/AME 0.70–0.80, PLE/AME 0.70–0.80). MOA nearly as long as wide (length/width 0.92–1.02), wider in front than behind (anterior width/posterior width 1.44–1.50). Clypeus narrower than diameter of AME (clypeus/AME 0.60–0.80). Chelicera with many small teeth. Labium wider than long (length/width 0.60–0.64). Sternum nearly as long as wide (length/width 0.98–1.01). Male palp as shown in Figs. 5–6. Abdomen longer than wide (length/width 1.68–1.84), wrinkled, with many short bristles (Fig. 4). Posterior end of the abdomen with three dorsal and two ventral projections.

Coloration and markings. Female. Carapace pale brown, with brown median line behind PMEs; thoracic region marginated with brown, rarely with brown band along cervical groove and radial furrows (Fig. 1). Chelicerae pale brown to brown. Maxillae pale brown to brown, inner margin yellow. Labium pale brown to brown, distally yellow. Sternum pale brown to brown, posterior part frequently darker. Legs pale brown to brown, tarsi and metatarsi darker. Tibia, patella and femur of second leg and metatarsus, tibia and patella of third leg dorsally dark brown. Dorsum of abdomen pale yellow, tail-like posterior part dark brown, frequently with a pair of dark brown band from median part to posterior end. Lateral sides and venter

Table 1 Measurement on leg segments of *A. melanura* SIMON, 1867 (in mm; ♀/♂).

Leg	Tarsus	Metatarsus	Tibia	Patella	Femur	Total
I	0.80/0.21	1.96/0.23	2.14/0.25	1.44/0.22	3.40/0.41	9.74/1.32
II	0.78/0.22	1.86/0.21	2.04/0.23	1.44/0.20	3.66/0.39	9.78/1.25
III	0.69/0.20	1.18/0.16	1.13/0.16	1.13/0.16	2.13/0.29	6.26/0.97
IV	0.74/0.23	2.12/0.23	2.08/0.25	1.68/0.21	3.08/0.41	9.70/1.33

of abdomen pale brown to brown, lateral side darker than venter.

Male. Carapace dark brown, with wide yellow median band spotted with dark brown (Fig. 4). Chelicera brown. Maxillae brown, inner margin pale yellow. Labium brown, distally yellow. Sternum brown. Legs brown, femur, trochanter and coxa basally yellow. Dorsum of abdomen pale brown, with large brown patch in anterior part, and with many small brown spots on the bases of short bristles (Fig. 4). Venter of abdomen pale brown, with several grey spots.

Range. India (ROEWER, 1942), Malaysia (SIMON, 1895; BONNET, 1955), Indonesia (ROEWER, 1942; CHRYSANTHUS, 1961), Taiwan (YAGINUMA, 1957; UYEMURA, 1976a,c), Japan (the present paper).

摘 要

キオヒグモ *Arachnura melanura* SIMON, 1867 はかつて日本から記録されたこともあるが、その当時の同定は誤りで、別種であるとされており、本種の日本での分布は疑問視されていた。しかし、筆者は西表島において本種の生息を確認したので、あらためて日本新記録として報告した。また、これまで不明であった本種の雄を記載した。

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